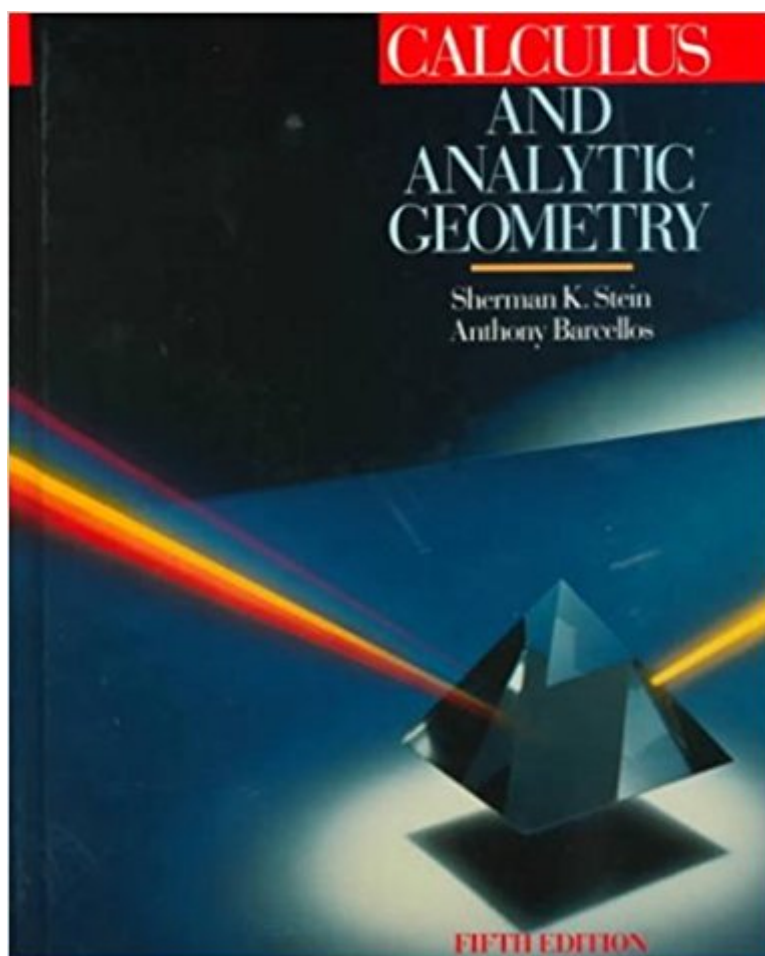


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Calculus And Analytic Geometry, 5th Edition



Synopsis

A revision of McGraw-Hill's leading calculus text for the 3-semester sequence taken primarily by math, engineering, and science majors. The revision is substantial and has been influenced by students, instructors in physics, engineering, and mathematics, and participants in the national debate on the future of calculus. Revision focused on these key areas: Upgrading graphics and design, expanding range of problem sets, increasing motivation, strengthening multi-variable chapters, and building a stronger support package.

Book Information

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Customer Reviews

Sherman Stein, received his Ph.D. from Columbia University. After a one-year instructorship at Princeton University, he joined the faculty at the University of California, Davis, where he taught until 1993. His main mathematical interests are in algebra, combinatorics, and pedagogy. He has been the recipient of two MAA awards; the Lester R. Ford Award for Mathematical Exposition, and the Beckenbach Book Prize for Algebra and Tiling (with Sandor Szabo). He also received The Distinguished Teaching Award from the University of California, Davis, and an honorary Doctor of Humane Letters from Marietta College.

I study the book from cover to cover and work out almost all the odd number problems on the second half of the book. I took classes on the first half of the book in the 70s and I study the book from the beginning to the end in the last year. I found the first 14 chapters simple and easy to read.

Problem is this book only provide the easier part of the subject, you can learn but not quite enough. In the vector portion, the book really not cover the parametric representation of vector very well. Even the example just show the answer not give you the method of finding parametric equation. The last 3 chapter are on the scatter side. I found it confusing. It does not provide with the top down approach. You can easily get lost reading chapter 16 and 17. Again the book is very weak on the parametric surface. Almost not covering the subject. Surface integral and divergence theorem section is as weak as can be. I study 2 other books. I study this book first, don't get a good feel. Lately I study Howard Anton book and I think it is a lot better. It could be due to the fact it is the second time I study the Multi Variable. Anton's book is more top down, telling you what the chapter want to achieve and then go down to more detail. It is a harder book to read. But I don't think Sherman Stein's book is good enough for self study regarding to the Multi Variable. I gave the book a three star mainly because of the first 2/3 of the book. The Multi Variable portion is forgettable. Should get two star or even one star. Some of the exercise in the book are very strange, not very practical. If your school use this, you have no choice, if you are buying for reading, go with Howard Anton or Thomas.

Great book and a good value.

I can only review an edition of this book dated at least 20 years ago. I bought it when I was in high school (in 10th grade actually) and used it by myself to learn calculus. When I got to the actual class, I knew basically everything and I mean everything that the teacher taught us in 12th grade. I didn't even need anything for my first 2 university level courses in calculus, just took the notes in the class and that was enough to get A+ in both, differential and integral calculus (course 1) and Vector calculus. The explanation of derivatives was great and my teacher just enhanced my knowledge there. The book was specially great when teaching integration. There was a chapter devoted to that. I skipped the section about using tables for integration and only learned a few basic formulas. The book taught the methods and still now, after 20 years, I can integrate pretty much anything without any difficulty at all. If the current edition is as good as it was 20 years ago, then this book is definitely a winner.

I am very thankful I could find this textbook at such an inexpensive price. It is slightly used but it will serve the purpose we need it to.

as advertised, excellent value, timely delivery

I used the Stewart book for my Calculus I course, and needed this one for my Calculus II course. This book is unequivocally the worst mathematics book I've ever encountered. In almost every section of every Chapter there is a proof that is needed to understand the material that the author leaves for the student to work out for themselves in an exercise. The most of the examples are grossly oversimplified compared to the work that the exercises require, so the student has no confidence at all in what they're doing when they get to the problems. The definitions involving critical subjects, like the introduction to integrals, are very wordy and hard to decipher. I had to resort my Stewart book many times just to get a grasp of the material. And when it comes to the problems, there are many where it's impossible to understand what they want you to do. In short, there are other Calculus books out there with a much more straight-forward approach, so if your so unlucky to need this book, I hope your professor is good, otherwise you're in for a rough semester.

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